

# Claims

- [c1] A method of managing graphical user interfaces associated with application programs operable on a computing device having a visual display device and a user input device for controlling a pointer on said display device, said graphical user interfaces having a plurality of windows containing widgets for visualization and manipulation of application program data (variables and/or call-back functions).
- [c2] A method of claim 1, comprising the usage of dynamic links (connections) between said data and their corresponding representations (widgets) in the graphical user interface.
- [c3] A method of claim 2, comprising the possibilities to create new, remove or replace existing said dynamic links.
- [c4] A method of claim 1, comprising the possibilities for GUI modification during an execution of said application programs.
- [c5] A method of claim 4, comprising the default said dynamic links for newly implemented said data.

- [c6] A method of claim 4, comprising the change of default attributes for widgets used by said dynamic links.
- [c7] A method of claim 4, comprising read/write procedures for previously established said dynamic links and/or the widget attributes.
- [c8] A method of claim 4, comprising the replacement of a widget in said dynamic link by another widget from a predefined list.
- [c9] A method of claim 8, wherein said predefined list is constructed according to the type of data associated with the said dynamic link.
- [c10] A method of claim 4, wherein the GUI's element (widget) representing an integer editable limited value can be converted into the slider type element (widget).
- [c11] A method of claim 1, comprising the recording/replaying functionality for user's interaction with convertible GUI.
- [c12] A method of claim 11, wherein a prerecorded sequence of said user's interaction for any initial state of GUI can be replayed for any new (converted) state of the same GUI.
- [c13] A method of claim 1, comprising the support of widget library, designed to work with the said dynamic links.

- [c14] A method of claim 6, comprising the automatic recalculation of coordinates and sizes for widget during resizing of its parent widget.
- [c15] A method of claim 8, comprising the automatic rule based conversion of attributes of replaced widget.
- [c16] A method of claim 15, comprising the customization of rules for said rule based conversion of attributes of replaced widget.
- [c17] A method of claim 13, comprising the run time creation of new and modification of existing widgets including their associations with the callback functions.